

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants

Debbi Claveloux and Sriram Narayan

Application No. 07/724,303

Group: 2642

Filed:

November 28, 2000

Examiner: Not Assigned

For: VIRTUAL LOOP CARRIER SYSTEM WITH NETWORK CLOCK RECOVERY

CERTIFICATE OF MAILING	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Assistant Commissioner for Patents, Washington, D.C. 20231	
on <u>04/30/01</u>	<u>Mary Quan</u>
Date	Signature
Mary Quan	
Typed or printed name of person signing certificate	

REPLY TO NOTICE TO FILE MISSING PARTS OF APPLICATION

Box Missing Parts
Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In reply to the Notice to File Missing Parts dated April 17, 2001, the following documents and fees are being submitted for filing in the captioned application. A copy of the Notice is attached.

☐ **EXECUTED DECLARATION/POWER OF ATTORNEY***(Separate transmittal letter and postcard not required)*☒ **FILING FEE** - with Fee Transmittal for Patent Applications in duplicate.*(Separate transmittal letter and postcard not required)*☒ **SURCHARGE** - surcharge fee of \$130.00.*(Separate transmittal letter and postcard not required)*☐ **SEQUENCE LISTING** - Filed concurrently and is attached.*(Separate transmittal letter and postcard required)*

☐ **TRANSMITTAL OF SUBSTITUTE DRAWINGS**

☐ Sheets of substitute drawings consisting of Figs. 1 - ☐ are enclosed.
(Separate transmittal letter and postcard not required)

☐ **PETITION FOR EXTENSION OF TIME**

☐ Applicant hereby petitions to extend the time to respond to the Notice to File Missing Parts dated ☐ for ☐ month(s) from ☐ to ☐.
The appropriate fee of \$☐ is included in the enclosed check.

☐ A ☐ month extension of time to respond to the Notice to File Missing Parts dated ☐ was filed on ☐ with payment of a \$☐ fee.

☐ Applicant hereby petitions for an additional ☐ month extension of time to respond to the Notice to File Missing Parts. The appropriate fee of \$☐ is included in the enclosed check.

(Separate Petition for Extension of Time and postcard not required)

☒ **REQUEST FOR CORRECTED FILING RECEIPT** - Filed concurrently and is attached.

(Separate transmittal letter and postcard required)

☐ **STATEMENT CLAIMING SMALL ENTITY STATUS**

☐ Was filed on ☐.

☐ Is enclosed herewith.

(Separate transmittal letter and postcard not required)

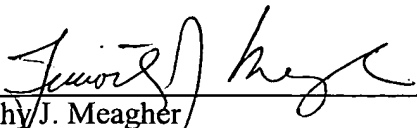
☐ In view of the small entity status of the captioned application, we hereby request a reimbursement of 50% of the filing fees in the amount of \$☐ which were paid on ☐ to be deposited in Deposit Account No. 08-0380.

The fees required for filing the indicated documents are enclosed in the form of a check in the total amount of \$840.00. Please charge any deficiency or credit any overpayment in the fees that may be due in this matter to Deposit Account No. 08-0380. A copy of this letter is enclosed for accounting purposes.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By


Timothy J. Meagher

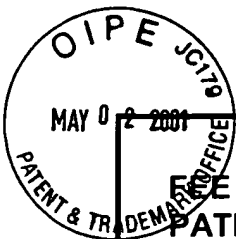
Registration No.: 39,302

Tel.: (781) 861-6240

Fax: (781) 861-9540

Lexington, Massachusetts 02421-4799

Date: 4/30/01



HAMILTON BROOK, SMITH & REYNOLDS, P.C.

OFFICE TRANSMITTAL FOR PATENT APPLICATIONS

Attorney Docket Number	2386.1045-004
Application Number	09/724,303
First Named Inventor	Denis Claveloux

CLAIM CALCULATION (includes any preliminary amendment)

CLAIMS	(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) RATE	(5) CALCULATIONS
	TOTAL CLAIMS (37 CFR 1.16(c) or (j))	14 - 20* =	0	x \$ 18 =	\$ 0
	INDEPENDENT CLAIMS (37 CFR 1.16(b) or (i))	2 - 3** =	0	x \$ 80 =	\$ 0
	MULTIPLE DEPENDENT CLAIMS (if applicable) (37 CFR 1.16(d))			+ \$ 270 =	\$
				BASIC FEE (37 CFR 1.16(a) or (h))	\$ 710
				Total of above Calculations =	\$ 710
	Reduction by 50% for filing by small entity (37 CFR 1.9, 1.27, 1.28) =				\$
	TOTAL =				\$ 710
	Surcharge - Late Filing of Declaration or Filing Fees (37 C.F.R. 1.16(e)) =				\$ 130
	Petition for Extension of Time Fee (37 C.F.R. 1.17) =				\$
	Assignment Recordation Fee = (only when filed with application)				\$
	* Reissue claims in excess of 20 and over original patent ** Reissue independent claims over original patent			TOTAL =	\$ 840

1. Small entity status:

- a. ☐ A small entity statement is enclosed.
- b. ☐ A small entity statement was filed in the prior non-provisional application and such status is still proper and desired.
- c. ☐ Is no longer claimed.

2. ☒ A general authorization is hereby granted to charge deposit account number 08-0380 for any fees required under 37 CFR 1.16 and 1.17 in order to maintain pendency of this application. A copy of this authorization is enclosed for accounting purposes.

3. ☒ A check is enclosed for \$840.00. ☐ Please charge \$[] to Deposit Account No. 08-0380.

4. ☐ Other: _____

Signature		Date	4/30/01
Submitted by Typed or Printed Name	Timothy J. Meagher	Reg. Number	39,302



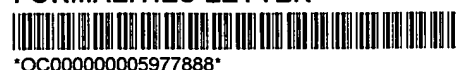
UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231
www.uspto.gov

APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
09/724,303	11/28/2000	Denis Claveloux	2386.1045-004

CONFIRMATION NO. 5360

FORMALITIES LETTER



Leo R. Reynolds
HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
Two Militia Drive
Lexington, MA 02421-4799

Date Mailed: 04/17/2001

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing.
Applicant must submit \$ 710 to complete the basic filing fee and/or file a small entity statement claiming such status (37 CFR 1.27).
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(e) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.
- **The balance due by applicant is \$ 840.**

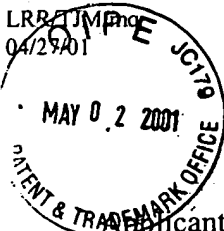
*A copy of this notice **MUST** be returned with the reply.*

Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE

05/04/2001 16:01:00 00000041 09724303
01 FC:101 710.00 DP
02 FC:105 130.00 DP



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

FILE COPY

Applicant(s): Denis Claveloux and Sriram Narayan
Application No.: 09/724,303 Group: 2642
Filed: November 28, 2000 Examiner: Not Assigned
For: VIRTUAL LOOP CARRIER SYSTEM WITH NETWORK CLOCK RECOVERY

CERTIFICATE OF MAILING	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Assistant Commissioner for Patents, Washington, D.C. 20231	
on <u>04/30/01</u>	<u>Mary Quan</u>
Date	Signature
<u>Mary Quan</u>	
Typed or printed name of person signing certificate	

RECEIVED
JUL 17 2001
Technology Center

REQUEST FOR CORRECTED FILING RECEIPT
FOR UTILITY APPLICATION

RECEIVED
JUL 17 2001
Technology Center 2600

Office of Initial Patent Examination
Customer Service Center
Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

We hereby request that the following items of information be corrected in the Filing Receipt for the subject application received in this office on April 23, 2001.

The errors and corrections appear below.

Correct inventor's name:

Sriram Narayan

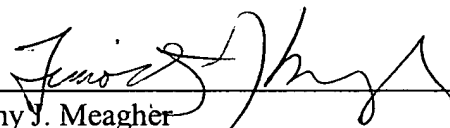
Enclosed are a copy of the Filing Receipt with changes noted in red, and a copy of the Declaration and Statement Under 37 CFR 1.63(d)(2) which was filed on November 28, 2000.

Pursuant to instructions in the February 29, 2000 O.G., we hereby request that the errors which are identified above be corrected in the captioned application to which this request for correction is directed. It is understood that the Patent Office will issue an automatically-generated, corrected Filing Receipt in this and, if applicable, any other affected applications.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By


Timothy J. Meagher

Registration No.: 39,302

Telephone: (781) 861-6240

Facsimile: (781) 861-9540

Lexington, MA 02421-4799

Date: 4/30/01



UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231
www.uspto.gov

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/724,303	11/28/2000	2642	0.00	2386.1045-004	46	14	2

CONFIRMATION NO. 5360

FILING RECEIPT



OC000000005977887

Leo R. Reynolds
HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
Two Militia Drive
Lexington, MA 02421-4799

Date Mailed: 04/17/2001

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the PTO processes the reply to the Notice, the PTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Denis Claveloux, Hudson, NH;
Sriram Narayan, Westford, MA;

NARAYAN

Domestic Priority data as claimed by applicant

THIS APPLICATION IS A CON OF 09/441,587 11/17/1999
WHICH CLAIMS BENEFIT OF 60/108,924 11/17/1998
AND CLAIMS BENEFIT OF 60/130,170 04/20/1999

Foreign Applications

If Required, Foreign Filing License Granted 04/17/2001

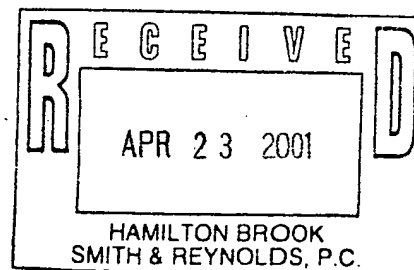
Projected Publication Date: N/A

Non-Publication Request: No

Early Publication Request: No

Title

Virtual loop carrier system with network clock recovery



Preliminary Class

379

Data entry by : TEKLEMICHAEL, MULU

Team : OIPE

Date: 04/17/2001



**LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15**

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 36 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

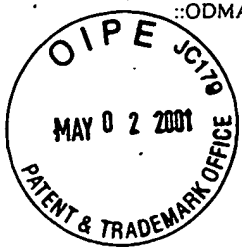
No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15 (b).

PLEASE NOTE the following information about the Filing Receipt:

- The articles such as "a," "an" and "the" are not included as the first words in the title of an application. They are considered to be unnecessary to the understanding of the title.
- The words "new," "improved," "improvements in" or "relating to" are not included as first words in the title of an application because a patent application, by nature, is a new idea or improvement.
- The title may be truncated if it consists of more than 600 characters (letters and spaces combined).
- The docket number allows a maximum of 25 characters.
- If your application was submitted under 37 CFR 1.10, your filing date should be the "date in" found on the Express Mail label. If there is a discrepancy, you should submit a request for a corrected Filing Receipt along with a copy of the Express Mail label showing the "date in."
- The title is recorded in sentence case.

Any corrections that may need to be done to your Filing Receipt should be directed to:

Assistant Commissioner for Patents
Office of Initial Patent Examination
Customer Service Center
Washington, DC 20231

**COPY**SET NO. 2386.1045-002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration for Patent Application**COPY FOR CONTINUING
APPLICATION**

As a named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated next to my name;

I believe I am the original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled

Virtual Loop Carrier System

the specification of which (check one)

☐ is attached hereto.☒ was filed on November 17, 1999 as United States Application number 09/441,587

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is known by me to be material to patentability as defined in 37 C.F.R. §1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed:

<u>Prior Foreign Application(s)</u>			Priority Not Claimed	Certified Copy Filed?	
				YES	NO
<u> </u> (Number)	<u> </u> (Country)	<u> </u> (Day/Month/Year filed)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u> </u> (Number)	<u> </u> (Country)	<u> </u> (Day/Month/Year filed)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u> </u> (Number)	<u> </u> (Country)	<u> </u> (Day/Month/Year filed)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below.

60/130,170
(Application Number)April 20, 1999
(Filing Date)60/108,924
(Application Number)November 17, 1998
(Filing Date)

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information known by me to be material to patentability as defined in 37 C.F.R. 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.)	(Filing date)	(Status: patented, pending, abandoned)
(Application Serial No.)	(Filing date)	(Status: patented, pending, abandoned)
(Application Serial No.)	(Filing date)	(Status: patented, pending, abandoned)
(Application Serial No.)	(Filing date)	(Status: patented, pending, abandoned)

As a named inventor, I hereby appoint the attorneys and/or agents associated with
Hamilton, Brook, Smith & Reynolds, P.C., Two Militia Drive, Lexington, Massachusetts 02421-4799
Customer No. 21005,

and _____

to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

Please send correspondence to: ☐ Customer No. Noted Above
or
☒ Address below:

Leo R. Reynolds, Esq.
HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
Two Militia Drive
Lexington, MA 02421-4799

Direct telephone calls to: Leo R. Reynolds Telephone No.: 781-861-6240
Direct facsimiles to: Leo R. Reynolds Facsimile No.: 781-861-9540

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole

or first inventor Dev V. Gupta

Inventor's Signature Dev V. Gupta Date 3.2.00

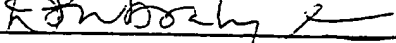
Residence 356 Mattison Dr.
Concord, MA 01742

Citizenship USA

Post Office Address Same

Full name of second joint

inventor, if any Subra Dravida

Inventor's Signature  Date 3.2.00

Residence 20 Hemingway Street
Shrewsbury, MA 01545

Citizenship India

Post Office Address Same

Full name of third joint

inventor, if any Vikram Saxena

Inventor's Signature  Date 3.1.00

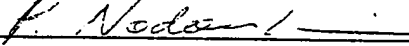
Residence 170 Pope Road
Acton, MA 01720

Citizenship USA

Post Office Address Same

Full name of fourth joint

inventor, if any Paiman Nodoushani

Inventor's Signature  Date 3.2.00

Residence 16 Saddle Hill Drive
Northboro, MA 01532

Citizenship USA

Post Office Address Same

Full name of fifth joint

inventor, if any Denis Claveloux

Inventor's Signature  Date 3.2.00

Residence 6 Rosemary Court
Hudson, NH 03051

Citizenship USA

Post Office Address Same

Full name of sixth joint

inventor, if any Sriram Naravan

Inventor's Signature *Sriram Naravan* Date 3.2.00

Residence 10 Loon Way
Westford, MA 01886

Citizenship India

Post Office Address Same

Full name of seventh joint

inventor, if any Kyung-Yeop Hong

Inventor's Signature *Kyung-Yeop Hong* Date 3.2.00

Residence 14 Longmeadow Way
Acton, MA 01720

Citizenship Korea

Post Office Address Same

Full name of eighth joint

inventor, if any Anthony Monteiro

Inventor's Signature *Anthony Monteiro* Date 3.2.00

Residence 25 Carriage Chase
North Andover, MA 01845

Citizenship USA

Post Office Address Same

Full name of ninth joint

inventor, if any Wei Ye

Inventor's Signature *Wei Ye* Date 3.2.00

Residence 23 Russell's Way
Westford, MA 01886

Citizenship P.R. of China

Post Office Address Same

Full name of tenth joint

inventor, if any David S. Yoon

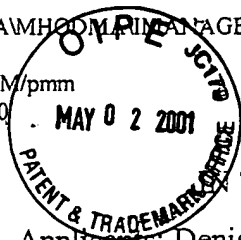
Inventor's Signature *David S. Yoon* Date 3.2.00

Residence 12 Glenwood Road
Windham, NH 03087

Citizenship USA

Post Office Address Same

LRR/TJM/pmm
11/28/00



COPY

PATENT APPLICATION
Attorney's Docket No.: 2386.1045-004

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Denis Claveloux and Sriram Narayan

Continuation of Application No.: 09/441,587

Filed: November 17, 1999

For: VIRTUAL LOOP CARRIER SYSTEM WITH NETWORK CLOCK RECOVERY

Date: 11/28/00

EXPRESS MAIL LABEL NO. EL 552 579 345 US

STATEMENT UNDER 37 CFR 1.63(d)(2)

Box PATENT APPLICATION

Assistant Commissioner for Patents

Washington, D.C. 20231

Sir:

This application is being filed by fewer than all inventors named in prior Application No. 09/441,587. Delete the following inventors named in the prior nonprovisional application:

Dev V. Gupta, Subra Dravida, Vikram Saksena, Paiman Nodoushani, Kyung-Yeop Hong, Anthony J. Monteiro, Wei Ye, David S. Yoon

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By

Timothy J. Meagher

Registration No. 39,302

Telephone (781) 861-6240

Facsimile (781) 861-9540

Lexington, Massachusetts 02421-4799

Dated: 11/28/00



UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231
www.uspto.gov



Bib Data Sheet

CONFIRMATION NO. 5360

SERIAL NUMBER 09/724,303	FILING DATE 11/28/2000 RULE	CLASS	GROUP ART UNIT 2662	ATTORNEY DOCKET NO. 2386.1045-004
APPLICANTS Denis Claveloux, Hudson, NH; Sriram Narayan, Westford, MA;				
** CONTINUING DATA ***** THIS APPLICATION IS A CON OF 09/441,587 11/17/1999 WHICH CLAIMS BENEFIT OF 60/108,924 11/17/1998 AND CLAIMS BENEFIT OF 60/130,170 04/20/1999				
** FOREIGN APPLICATIONS *****				
IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** 04/17/2001				
Foreign Priority claimed <input type="checkbox"/> yes <input type="checkbox"/> no 35 USC 119 (a-d) conditions <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Met after met Verified and Acknowledged	<input type="checkbox"/> yes <input type="checkbox"/> no Allowance Examiner's Signature _____ Initials _____	STATE OR COUNTRY NH	SHEETS DRAWING 46	TOTAL CLAIMS 14
INDEPENDENT CLAIMS 2				
ADDRESS Leo R. Reynolds HAMILTON, BROOK, SMITH & REYNOLDS, P.C. Two Militia Drive Lexington, MA 02421-4799				
TITLE Virtual loop carrier system with network clock recovery				
FILING FEE RECEIVED 840	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:		<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input type="checkbox"/> 1.18 Fees (Issue) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit	

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